

WHAT IS CLAIMED IS

1. A motor having a dynamic pressure bearing apparatus comprising:

a fixed bearing member mounted to a motor frame;

a rotating shaft member rotatably inserted with respect to the fixed bearing member;

a lubricating fluid injected into a gap portion between the fixed bearing member and the rotating shaft member;

the rotating shaft member being supported by a dynamic pressure caused by the lubricating fluid,

wherein the motor frame is provided with a generally cylindrical bearing hold member which holds and fixes a bearing member, the bearing hold member includes a bearing contacting portion which abuts against the fixed bearing member or one part of the assembly including the fixed bearing member in an axial direction for positioning the fixed bearing member in a normal position in an axial direction.

2. The motor having a dynamic pressure bearing apparatus according to claim 1, wherein said fixed bearing member is fixed to said bearing hold member by an adhesive material.

3. The motor having a dynamic pressure bearing apparatus according to claim 1, wherein said fixed bearing member is fixed to the internal circumference of the bearing hold member, and a stator core is fitted to an outer periphery of the bearing hold member.

4. The motor having a dynamic pressure bearing apparatus according to claim 3, wherein the bearing hold member includes a core contacting portion which abuts in an axial direction with one part of the stator core for positioning the stator core in an axial

direction.

5. The motor having a dynamic pressure bearing apparatus according to claim 1, wherein the motor frame is provided with a position reference surface which is a stator reference surface when the motor is installed to a main apparatus body, and the fixed bearing member is positioned in a normal position in an axial direction with respect to the stator reference surface by the bearing contacting portion which is provided in the bearing hold member.

6. The motor having a dynamic pressure bearing apparatus according to claim 5, wherein the rotating shaft member is mounted with a hub carrying a recording disc and a disc placing surface of the hub is positioned in a normal position in an axial direction with respect to the stator reference surface.

7. The motor having a dynamic pressure bearing apparatus according to claim 1, wherein the bearing contacting portion is provided with an air-hole which is formed in the center section of the bearing contacting portion which is formed in the bearing hold member in an axial direction.

8. The motor having a dynamic pressure bearing apparatus according to claim 1, wherein the bearing contacting portion is formed to abut against a step portion in the axial direction of the fixed bearing member.

9. A motor having a dynamic pressure bearing apparatus comprising:
a fixed bearing member mounted to a motor frame or a bearing mounting member fixed to the motor frame;

a rotating shaft member rotatably inserted with respect to the fixed bearing

member;

a lubricating fluid injected into a gap portion between the fixed bearing member and the rotating shaft member;

the rotating shaft member is supported by a dynamic pressure caused by the lubricating fluid,

wherein the motor frame or bearing mount member fixed to the motor frame is provided with a generally cylindrical bearing hold member which holds and fixes a bearing member, the bearing hold member includes a bearing contacting portion which abuts against the fixed bearing member or one part of the assembly including the fixed bearing member in an axial direction for positioning the fixed bearing member in a normal position in an axial direction.

10. The motor having a dynamic pressure bearing apparatus according to claim 9, wherein the fixed bearing member is fixed to the bearing hold member by an adhesive material.

11. The motor having a dynamic pressure bearing apparatus according to claim 9, wherein the fixed bearing member is fixed to the internal circumference of the bearing hold member, and a stator core is fitted to an outer periphery of the bearing hold member.

12. The motor having a dynamic pressure bearing apparatus according to claim 11, wherein the bearing hold member includes a core contacting portion which abuts in an axial direction with one part of the stator core for positioning the stator core in an axial direction.

13. The motor having a dynamic pressure bearing apparatus according to claim 9,

wherein the motor frame is provided with a position reference surface which is a stator reference surface when the motor is installed to a main apparatus body, and the fixed bearing member is positioned in a normal position in an axial direction with respect to the stator reference surface by the bearing contacting portion which is provided in the bearing hold member.

14. The motor having a dynamic pressure bearing apparatus according to claim 13, wherein said rotating shaft member is mounted with a hub carrying a recording disc and a disc placing surface of the hub is positioned in a normal position in an axial direction with respect to the stator reference surface.

15. The motor having a dynamic pressure bearing apparatus according to claim 9, wherein the bearing contacting portion is provided with an air-hole which is formed in the center section of the bearing contacting portion which is formed in the bearing hold member in an axial direction.

16. The motor having a dynamic pressure bearing apparatus according to claim 9, wherein the bearing contacting portion is formed to abut against a step portion in the axial direction of the fixed bearing member.

17. A manufacturing method of a motor having a dynamic pressure bearing apparatus comprising the steps of:

a bearing assembling step rotatably inserting a rotating shaft member into a fixed bearing member to form a bearing assembly,

an injection step injecting a lubricating fluid into a gap portion between the fixed bearing member and the rotating shaft member,

a mounting step mounting the bearing assembly in a motor frame; and

providing the motor frame with a generally cylindrical bearing hold member for mounting the fixed bearing member, and the bearing hold member with a bearing contacting portion abutting one part of the bearing assembly, and when the fixed bearing member is mounted in the bearing hold member, one part of the bearing assembly abuts in an axial direction against the bearing contacting portion of the bearing hold member and the fixed bearing member is positioned in a normal position.

18 The manufacturing method of a motor having a dynamic pressure bearing apparatus according to claim 17, wherein an injection step of the lubricating fluid is performed after the bearing assembling step of the bearing assembly and before the mounting step to mount the bearing assembly to the motor frame.

19. The manufacturing method of a motor having a dynamic pressure bearing apparatus according to claim 18, further comprising the step of installing the rotating shaft member with a hub carrying a recording disc.

20. The manufacturing method of a motor having a dynamic pressure bearing apparatus according to claim 18, further comprising the step of positioning the fixed bearing member in a predetermined position with respect to the axial direction so that the rotating shaft member is also positioned at a predetermined position.